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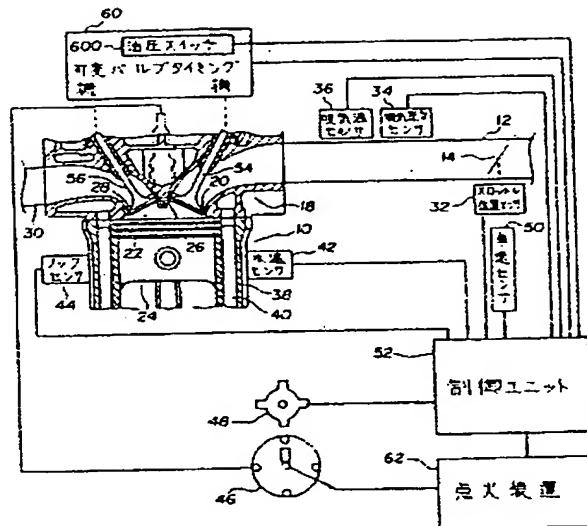
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APPLICANT : HONDA MOTOR CO LTD;

INVENTOR : AKEMOTO KISHIYU;

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TITLE : KNOCKING CONTROLLER FOR
INTERNAL COMBUSTION ENGINE



ABSTRACT : PURPOSE: To prevent any misjudgment of knocking by making knock control so as to be stopped as long as the specified period when valve timing and/or lift is changed, in a device which is equipped with a variable valve timing mechanism and a knocking control means.

CONSTITUTION: In an internal combustion engine 10 provided with two intake and exhaust valves 54, 56 at each cylinder, a variable valve timing mechanism 60, controlling valve timing and lift of these intake and exhaust valves 54, 56 according to a command of a control unit 52, is connected to these valves 54, 56. In addition, when a knock sensor 44 has detected knock occurrence, an igniter 62 is controlled so as to compensate ignition timing for its timing delay by the control unit 52. In this case, when valve timing and/or lift is changed by the variable valve timing mechanism 60, timing delay compensation (knock control) of ignition timing based on output of the knock sensor 44 is stopped over a specified period, and any detection miss on the basis of operating noise of the mechanism 60 is kept in this way.

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